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Development and Manufacturing Centre

SERVICE MANUAL
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UNIT

Release Bulletin PCR User Terminal

R 1.5 L1

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SERVICE MANUAL - UNIT

Release Bulletin PCR User Terminal R 1.5 L1

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1 Introduction

This document contains:

- Release notes for the Philips Medical Systems PCR User Terminal software
- Installation procedure of the application software
- Configuration

The information contained in this bulletin has been carefully checked and is believed to be entirely reliable. However, as Philips Medical Systems improves the reliability, function, and design of their products, the possibility exists that information may not be current.

1.1 Conventions Used In The Text

- Text required to be input is shown in Times New Roman and Bold (e.g. : **shutdown**) in the format in which it is to be typed in (i.e. : A mixture of capital and non-capital letters)
- Computer displays / responses are shown in Courier and Bold (e.g. : **`Press any key to continue`**)
- File names and directories are shown in Arial and Bold (e.g. : **/user/usit**)
- Keys are shown between the < > marks (e.g. : <Enter>, <Esc>, <Y> etc.)
- Soft-Keys are shown between the [ ] brackets (e.g. : [OK], [Cancel] etc.)
- When two or more keys are to be pressed at the same time, a + sign will be used as a separator (e.g. : <CTRL> + <C>).
- Special attention to actions is preceded with the word **CAUTION.**
  (e.g. : **CAUTION : Do not switch off the system because**.....)

1.2 Abbreviations And Acronyms

AUI	Attachment Unit Interface
CR	Computed Radiography
DICOM	Digital Imaging and Communication in Medicine
DRR	Dynamic Range Reconstruction (Philips Image Processing algorithm)
EV	EasyVision
FTP	File Transfer Protocol
HIS	Hospital Information System
IHA	Image Handler
NFS	Network File System
PACS	Picture Archiving and Communication System
PCI	Peripheral Component Interconnect
PCR	Philips Computed Radiography
PMSNet	Philips proprietary communication standard
RIS	Radiology Information System
TCP/IP	Transmission Control Protocol / Internet Protocol
USIT	PCR User Terminal
USIT PC	Personal computer used as USIT terminal
Server USIT	USIT with the Reader connected to it and with the database
Client USIT	USIT for entering data and linking image plates only
Reader USIT	Client USIT with Reader
Main EVRAD	EasyVision RAD with the main database
Workspot	Additional EasyVision, working as client

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2 Release Information

2.1 Supplied Software

PCR User Terminal Software R1.5 L1 ..... 4512 201 01131
containing:
- 1 CD-ROM
- this Release Bulletin

In case of an upgrade in the field two boot floppies will be delivered additionally.
The floppies have to be used at PCs which are not able to boot via the CD- ROM drive, e.g. Pioneer.

2.2 What's New . . .

- The CD-ROM containing this SW is bootable. There is no need to use the bootdisks after the CD-ROM drive has been configured as the second bootable device in the BIOS of the PCs.
- Two additional characters for the procedure codes: “ ” and “#”.
- Backup of the Terminal and System configuration via a service menu.
- The backup menu ‘All’ contains also the configuration.
- The Service Diagnostic floppy diskette will not be delivered anymore in the scope of this SW.

2.3 Compatibility

The PCR User Terminal Release 1.5 L1 is compatible with the following releases of PCR software:

RIS option .....R 1.5 L1
EasyVision RAD.....R 4.2L 2 and onwards
PCR 9000 .....A07 and onwards
AC3000.....A00 and onwards
AC3 .....A04 and onwards
AC2.....D04
AC500.....A04 and onwards
AC5000.....A08 and onwards

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2.4 Known Limitations

For service:

- If a single USIT must be converted to a multiterminal USIT, or vice versa, the IP address of the connected Reader or Client USIT must be added manually in the hosts file.
- Data backed up under the following options should only be restored on the terminal from which it was backed up: System Configuration, Terminal Configuration, All Data.
- Immediately after software installation, the databases, when viewed via the start-up service screen (<s> <Enter>) will appear to be empty. Please allow the USIT to start up completely before viewing or editing.
- A maximum of 7 Client or Reader USITs may be connected to a Server in one cluster.
- USIT configured for AC3: Exam function must not be used on client if server is not configured to barcode plates.
- If there are installed different types of PCs, the fastest one has to be configured as Server USIT.
- If a wrong network interface (e.g. On-board NIC) has been selected during the installation of this software the PC will hangup after a reboot. To select another NIC the whole software must be installed again.

For service and user:

- Creation of new procedure codes and modification of the anatomy database have to be done at the server only.
- If changes were made in the anatomy database all Client and Reader USITs must be restarted.
- The USITs of a cluster have to be started one after the other, at first the Server USIT and than all Client and Reader USITs with a short time delay in between.
- If the barcode reader is used in an unusual quick succession while there is not any patient entry neither in the Schedule nor in the Exam window, the cursor disappears at the display. Press <Alt> + <Tab> to get the cursor back.

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3 Entering the Service Mode

There are two ways to reach the service mode:

During start-up:

NOTE: At start-up time, the AC3 terminal emulation is not running.

1. Start-up the USIT
2. When you see the ”Start-up” screen :

```
PCR . . .  Starting PCR User Terminal, please wait.
```

press **immediately** <s> followed by <Enter>.

3. When prompted for the password, type **password** <Enter>.

Within the application:

1. From the patient list window select ***Utilities*.**
2. Select ***Service*.**
3. Enter the password: **password** <Enter>.

The following selections are possible:

1. Reconfigure PCR User Terminal menu
2. Backup and Restore Database menu
3. System Reports menu
4. Network menu
5. OS/2 Command Shell
6. Clear System Log
7. Restore previous Configuration
8. AC3 Service terminal emulation (if an AC3 is configured and the service mode is entered within the application)

Q. QUIT and start/ go to application

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4 Navigational Aids For OS/2

The following navigational aids should help with installation from the keyboard, as will familiarity with MS-Windows™ or OS/2:

- Use the <TAB> and <TAB>+<Shift> to move between blocks of items on the screen. Use cursor keys (arrows) to move from field to field within blocks. Use the <Spacebar> to select, check, highlight, or toggle the field and the <Enter> to "click" on the selection.

- Note that <Enter> executes the equivalent of the mouse "click" or selection on the highlighted item.
  Often the [OK] is the pre-highlighted item, so you can just use <Enter> to confirm the information and leave the screen.

- Use <Alt>+<TAB> to move the focus (cursor) between screens (or windows). This will also make screens that have disappeared, reappear, or screens that have lost focus become active again. Screens lose focus when an error or message screen that has appeared is closed.

- Use <Alt>+<F4> to close screens such as error or message screens, that are no longer wanted.

- Many commands have an underlined letter in the command word (e.g. Exit) that define a "hot key". Use the "hot keys" whenever possible, as it is the same as clicking with the mouse.
  The hot keys are <Alt>+<character underlined> (e.g. <Alt>+<X>).
  Occasionally, the "Hot key" character does not require (or allow) the <Alt> key, in which case the character alone is effective.

- The <Alt>+<Page down> is also used to jump between pages on graphical "notebooks".

OS/2 Hot Keys

<Ctrl> + <Esc>	Window List with currently running tasks
<Alt> + <Esc>	Next open window
<Alt> + <F10>	Maximize current window
<Alt> + <F7>	Move window
<Alt> + <F4>	Close current window
<F10>	Enter or exit menu bar

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5 Network Definitions

IP Address

The IP Address is a registered Internet address which is divided into two fields :

- Network address
- Local address

The total length of the IP address is always 32 bits. The first part is the network address. The last part is the local address. The length of each of the two fields depends on the network class A, B or C. Each field can be 24 bits, 16 bits or 8 bits in length as indicated below :

Class	IP Address (binary)	Example (decimal)
Class A	0xxxxxxx 00000000 00000000 00000001	1-127. 0. 0. 1
Class B	10xxxxxx xxxxxxxx 00000000 00000001	128-191. 0-255. 0. 1
Class C	11xxxxxx xxxxxxxx xxxxxxxx 00000001	192-223. 0-255. 0-255. 1

For each of the above classes the IP address is made up as follows :

Class A	The first 8 bits are for the network address The last 24 bits are for the local address
Class B	The first 16 bits are for the network address The last 16 bits are for the local address
Class C	The first 24 bits are for the network address The last 8 bits are for the local address

Net mask

The (Sub-) net mask is used to keep messages within their own network area. The net mask filters the messages between the networks and depends on the network class as follows :

Net mask for Class A	255	0	0	0
Net mask for Class B	255	255	0	0
Net mask for Class C	255	255	255	0

Domain

A domain (or cluster) is a specific logical range within a network. In a multiterminal/ multireader configuration all corresponding USITs must have the same domain name. The domain name will be created automatically by the configuration program.

If there are more multiterminal/ multireader configurations attached to the network then each system (cluster) requires a different domain name.

Some configuration examples with the readers AC500 and AC5000 are shown in the following.
In case of using the reader AC3, AC3000 or PCR9000 a DMS interface cable instead of Ethernet has to be installed between each reader and the assigned EasyVision RAD.

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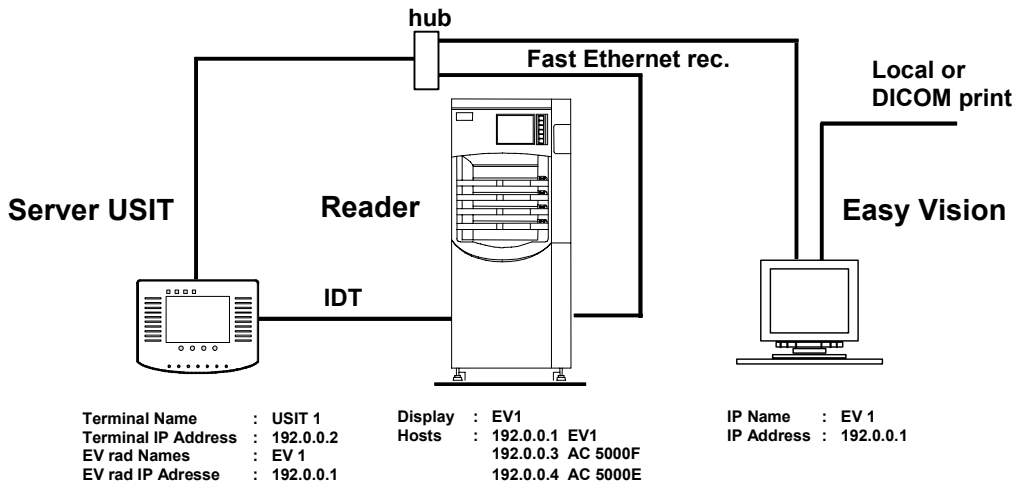
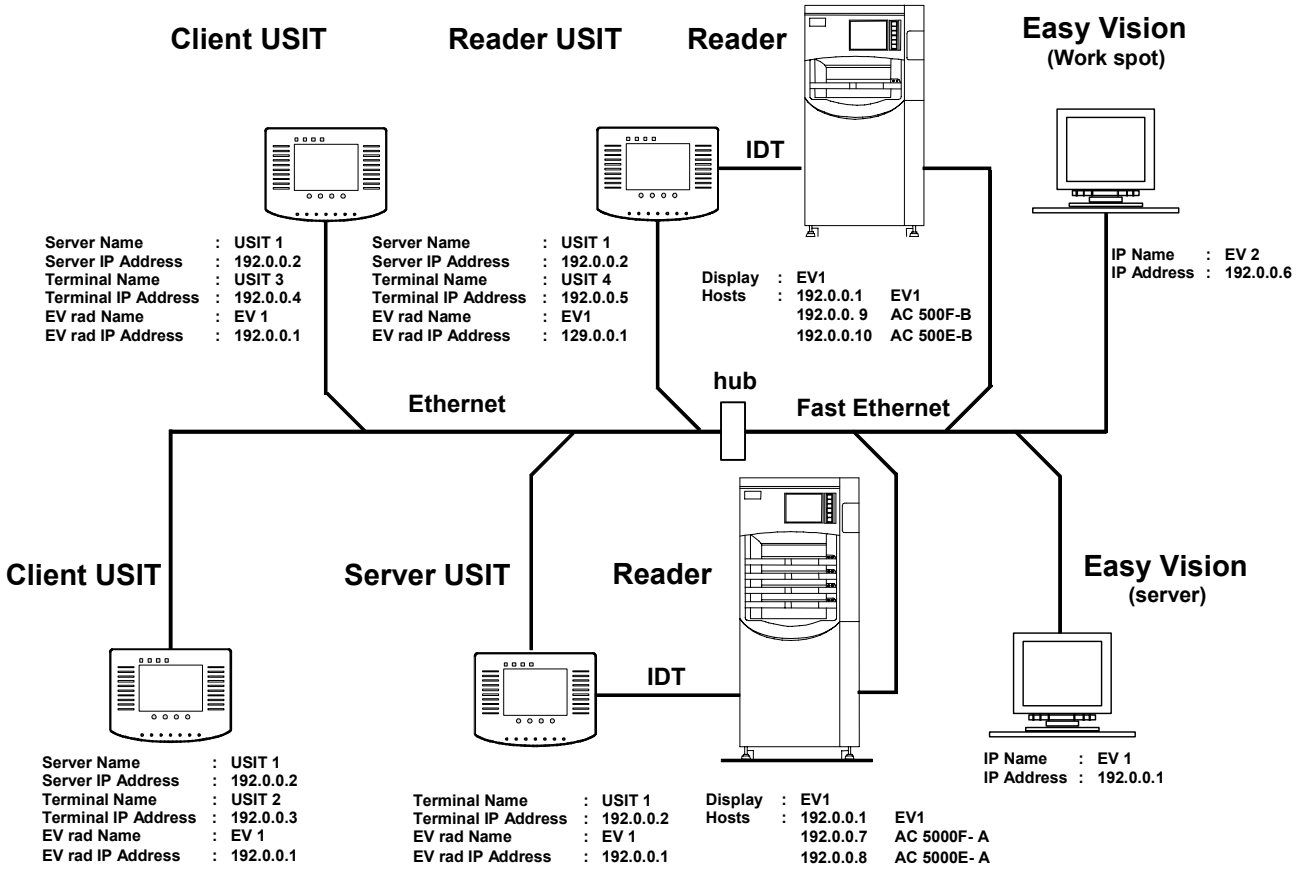
Singleterminal Configuration for AC500/ AC5000:

A singleterminal installation contains just one USIT. The USIT has to be configured as server.
Server Name and Server IP Address have to be the same as Terminal Name and Terminal IP Address.



Multiterminal/ Multireader Configuration for AC500/ AC5000 (one cluster):

In a multiterminal/ multireader installation there may be up to 7 Client and/ or Reader USITs connected via Ethernet to one Server USIT.
The server holds the patient database and shares it with the clients. The server is the only USIT to receive RIS data.
The readers are connected via Ethernet (Fast Ethernet recommended) to the Server EasyVision and via a serial interface (IDT) to a USIT.
USITs connected to a reader have to be configured as Server USIT or Reader USIT.



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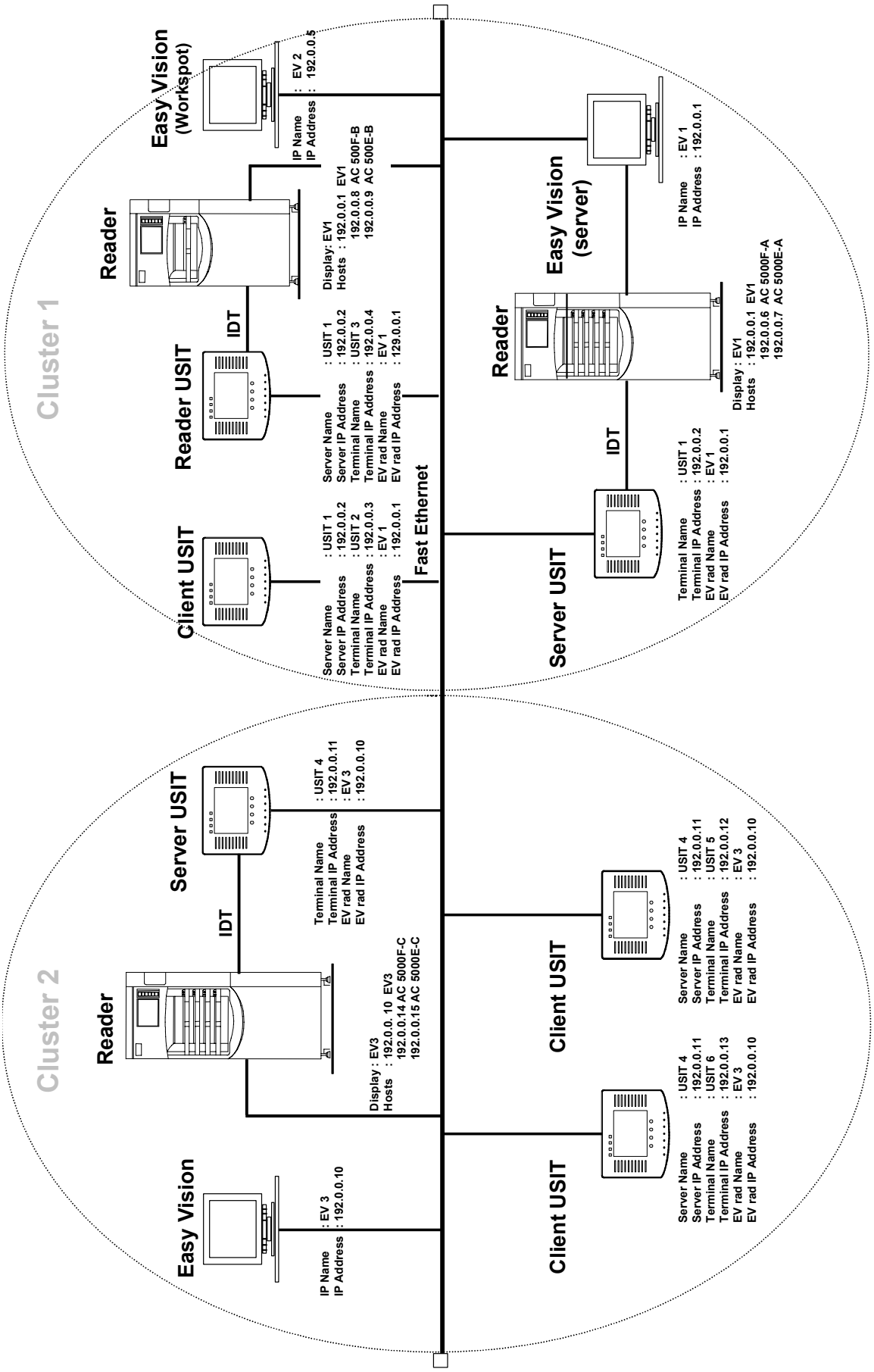
Multiterminal/ Multireader Configuration for AC500/ AC5000 (two clusters):


Cluster 1
Easy Vision (Workspot)
IP Name : EV 2
IP Address : 192.0.0.5
Reader
Display: EV1
Hosts : 192.0.0.1 EV1
192.0.0.8 AC 500F-B
192.0.0.9 AC 500E-B
IDT
Reader USIT
Server Name : USIT 1
Server IP Address : 192.0.0.2
Terminal Name : USIT 3
Terminal IP Address : 192.0.0.4
EV rad Name : EV 1
EV rad IP Address : 129.0.0.1
Client USIT
Server Name : USIT 1
Server IP Address : 192.0.0.2
Terminal Name : USIT 2
Terminal IP Address : 192.0.0.3
EV rad Name : EV 1
EV rad IP Address : 192.0.0.1
Fast Ethernet
Easy Vision (server)
IP Name : EV 1
IP Address : 192.0.0.1
Reader
Display : EV1
Hosts : 192.0.0.1 EV1
192.0.0.6 AC 5000F-A
192.0.0.7 AC 5000E-A
IDT
Server USIT
Terminal Name : USIT 1
Terminal IP Address : 192.0.0.2
EV rad Name : EV 1
EV rad IP Address : 192.0.0.1
Cluster 2
Server USIT
Terminal Name : USIT 4
Terminal IP Address : 192.0.0.11
EV rad Name : EV 3
EV rad IP Address : 192.0.0.10
IDT
Reader
Display : EV3
Hosts : 192.0.0. 10 EV3
192.0.0.14 AC 5000F-C
192.0.0.15 AC 5000E-C
Client USIT
Server Name : USIT 4
Server IP Address : 192.0.0.11
Terminal Name : USIT 5
Terminal IP Address : 192.0.0.12
EV rad Name : EV 3
EV rad IP Address : 192.0.0.10
Client USIT
Server Name : USIT 4
Server IP Address : 192.0.0.11
Terminal Name : USIT 6
Terminal IP Address : 192.0.0.13
EV rad Name : EV 3
EV rad IP Address : 192.0.0.10
Easy Vision
IP Name : EV 3
IP Address : 192.0.0.10

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6 Software Installation

During installation of the system the complete software package must be loaded, ...
at first into the Server USIT and afterwards into all other Client or Reader USITs if present.

Installing and configuring the optional RIS software is described in the belonging RIS Option Bulletin.
The installation time depends on the type of the USIT PC and may varies from 10 minutes up to 1 hour.

6.1 Complete Software Installation

Prerequisites:
- Network data (IP addresses and names, net mask, etc.) if the system is connected to the hospital net.
- Software to be loaded (CD-ROM and bootdisks, the bootdisks are necessary for the Pioneer PC only).
- Empty formatted floppy diskettes for backup procedure. 1 for the USITs, 1 for each AC500/ AC5000 reader.
- Type of network interface board of the USIT PC is known (on-board or 3C509 or 3C905-TX).
  From the PC of the type IBM 300 PL onwards the on-board network interface shall be used.
- The BIOS of the PC is well configured according to the Service Manual PCR User Terminal.

Note:
- During SW installation it may happen that the system prompts you after a change of the installation diskettes with '**Drive C: was improperly stopped. Run CHKDSK with the /F option ...**'. Simply ignore this message if it occurs.
- The CD-ROM containing this SW is bootable. There is no need to use the bootdisks after the CD-ROM drive has been configured as the second bootable device in the BIOS of the PCs. This is possible with the types IBM350, IBM300PL and successors.

  Ignore the messages about insertion and removal of the bootdisks if the PC boots via the CD-ROM.

  Insert only the CD-ROM and press <Ctrl.> + <Alt> + <Del>.

Procedure:
1. Make sure the USIT is switched-off and **connected to the network.**

2. Place the **BOOTOS2 Diskette 1** into the floppy disk drive and turn on the computer.
   See in sequence information about the boot process (BIOS), operating system OS/2 and the IBM logo.

   When loading from diskette 1 has finished you will be asked to to remove the diskette 1.

3. Place **BOOTOS2 Diskette 2** in the floppy disk drive and press <Return>.
   The text 'Loading, please wait ...' and the following installation menu will be displayed.

```
      PCR User Terminal
      Installation Menu

[ 1 ] Automatic harddisk partitioning
      (mandatory for option [2])
      WARNING: All data on HD will be lost
[ 2 ] USIT 1.5L1 application installation
[ 3 ] Change network interface card (NIC) of
      already installed USIT 1.5L1
[ 4 ] Exit USIT installation
      Enter number:
```

4. Type <1> and press <Return> to start the automatic partitioning of the harddisk.

   The system displays:

```
Harddisk partitioning completed.
Make sure that CD-ROM is inserted.
Please insert BOOTOS2 DISK 1 in floppy drive and press
```


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```
    [Ctrl] + [Alt] + [Del].
```

5. Insert **BOOTOS2 Diskette 1** and **CD- ROM** and press <Ctrl.> + <Alt> + <Del> to reboot the system.

   When loading from Diskette 1 has finished you will be asked to insert BOOTOS2 Diskette 2 into floppy drive.

6. Place the **BOOTOS2 Diskette 2** in the floppy drive and press <Return>.

   You will get the installation menu:

```
       PCR User Terminal
       Installation Menu
[ 1 ]  Automatic harddisk partitioning
       (mandatory for option [2])
       WARNING: All data on HD will be lost
[ 2 ]  USIT 1.5L1 application installation
[ 3 ]  Change network interface card (NIC) of
       already installed USIT 1.5L1
[ 4 ]  Exit USIT installation
       Enter number:
```

7. Type <2> and press <Return> to start the installation of the application software and the service utilities. The following configuration window appears:

```
       PCR User Terminal
       Network Interface Card Menu

Note for NIC-change of an already installed USIT:
-------------------------------------------------
After the selection of a NIC the system will shutdown
automatically. A restart activates the new NIC.

Select network interface card (NIC):

[ 1 ]  3Com 3C509 (10 Mbps, RJ-45, BNC and AUI connectors)
[ 2 ]  3Com 3C905-TX (10/100 Mbps, RJ-45 connector only)
[ 3 ]  On-board NIC (IBM 300PL PC)
[ 4 ]  On-board NIC (IBM NetVista A40 PC)
[ 5 ]  Back to installation menu
       Enter number:
```

8. Select the network interface card installed in this USIT PC, e.g. [3] for all new PCR installations. The installation process will continue. It takes about 10 minutes, depending on the type of the PC.

   While loading the software, the following messages are displayed sequentially:

```
   Formatting C partition, please wait ...

   Formatting D partition, please wait ...


   Restoring OS/2, please wait ...
   OS/2 restored successfully.
   Creating all directories ...
   Copying all files ...
   Installing Java ...
```


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When the installation has been successfully completed the system prompts with

```
NIC is now  ......   (e.g.IBM300PL)
    Please wait.
Shutdown in progress.
Shutdown has completed.

Please remove BOOTOS2 DISK 2 from floppy drive
and CD-ROM from CD- drive.
Make sure that the computer is connected to the network.
Press [Ctrl] + [Alt] + [Del] to reboot the system.
```

9. Remove the diskette and the CD- ROM and press <Ctrl>+<Alt>+<Del>.
   The system reboots and starts automatically the USIT Configuration Options screen:

```
USIT Configuration Options
[C]  Configuration without existing configuration data
     (normal case if USIT is installed for the first time)
[R]  Reconfiguration of the USIT terminal
     using existing configuration diskette
     Enter character:
```

10. Enter [C] if you don´t have existing configuration data on diskette.
    Enter [R] if you want to use the configuration data written during a previous installation of this terminal or another USIT terminal with a similar configuration of this release.

11. If you entered [C] you will be asked to select the operators language:

```
PCR User Terminal Language

         [1] English
         [2] English (USA)
         [3] German
         [4] French
         [5] Spanish

Enter number of chosen language:
```

    Select the desired language by pressing the appropriate number and <Enter>.
    Note that the configured language must be the same on all USIT's in the system.

    The following messages will be displayed:

```
Installing language ...
Creating database files in current directory ...
Database files successfully created in current directory.
Database files successfully closed in current directory.
Database files successfully opened in current directory.
Database files successfully closed in current directory.
```

12. Configure the items of the Terminal Configuration shown in the list below.

[01] USIT Type	1 = Server terminal 2 = Client terminal 3 = Reader terminal If there is only one USIT in your configuration, configure it as a server. See also chapter Network Definitions.
[02] Terminal Name	Enter here the IP name of this USIT, e.g.: **USIT1** Max. 8 characters recommended: a..z, A..Z, 0..9, "_", "-"

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	Small letters will be converted automatically to capitals Enter a terminal name, even if you choose the default name!
[03] Terminal IP Address	Enter a valid address, e.g.: 192.0.0.2 Address fields greater than 255 are not valid
[04] TCP/IP Netmask (optional)	Default: 255.255.255.0 Address fields greater than 255 are not valid.
[05] TCP/IP Broadcast Address (optional)	Default: none =0.0.0.0 Address fields greater than 255 are not valid.
[06] TCP/IP Default Router (optional)	Default: none =0.0.0.0 Address fields greater than 255 are not valid.
[07] Server Name	Enter the terminal name of the Server USIT, e.g. **USIT1**. Available in case of Client or Reader USIT configuration only.
[08] Server IP Address	Enter the IP address of the Server USIT, e.g. 192.0.0.2 Available in case of Client or Reader USIT configuration only. Address fields greater than 255 are not valid.
[09] Keyboard Layout	See screen message. Default: US
[10] Primary Function	1 = Examination (with RIS recommended) 2 = Schedule (without RIS recommended)
[11] Reader Type	Select the type of the Reader connected to this terminal. 0 = no reader attached 1 = AC3 2 = AC2 3 = AC500, AC3000, AC5000 or 9000 Always set to "0" for a Client USIT
[12] Reader ID	Reader sequence number, as set in the Reader configuration [SYSTEM] Characters allowed: A .. Z When configuring a **Client USIT** you may ignore this item.
[13] EVrad Name	Enter the IP Node name of the main EasyVision, e.g.: EV1 **For Reader USITs connected via DMS cable:** Enter the IP Node name of the Reader EasyVision connected to the corresponding reader. Characters allowed: a..z, A..Z, 0..9, "_", "-"
[14] EVrad IP Address	Enter the IP address of the above assigned EasyVision, e.g.: 192.0.0.1
[15] Use Imaging Plate Barcodes ?	Yes, No 'No' only for AC2 and AC3 reader.
[16] Sort Order for Patient List	Enter the sort order for the patient list in the examination and schedule screen in compliance with the customer wishes. For explanation see Operator´s manual. 1 = by last name 2 = by ID 3 = by incoming date

13. When configuration is done, press <S> and <Enter> to save the configuration, then <Y> and <Return> to confirm.

14. If you have configured this USIT as server the **System Configuration** program is started here. If this USIT

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is a Client or Reader USIT continue with step 18.

[01] Hospital Name	Max. 32 characters. Will be displayed during screen save.
[02] Multiterminal Installation	Enter <N> if you have only one USIT Y / N
[03] Date Format	0 = MM-DD-YYYY 1 = DD-MM-YYYY 2 = YYYY-MM-DD
Separator	0 = **-** 1 = **.** 2 = / 3 = <Space>
Month Format	0 = 0...12 1 = Jan 2 = JAN 3 = jan
[04] Time Format	0 = 24 hours 1 = 12 hours AM / PM 2 = 12 hours A.M / P.M.
Separator	0 = **:** , 1 = **.**
[05] Patient Dismiss Duration	How long should the patient data stay in the database ? 4,8,12,24,48,72,96,120 hours. Default: 120 h
[06] Exam Dismiss Duration	How long should the scheduled exams be active until they are expired? 4,8,12,24,48,72,96,120 hours. Default: 24 h

15. When configuration is done, press <S> and <Enter> to save the configuration, then <Y> and <Enter> to confirm.
16. Now the IBM Peer hosts configuration screen (example) is displayed:

```
IBM Peer TCP/IP Configuration
File: c:\mptn\etc\HOSTS        Entries: 3
192.0.0.2          USIT1       MYHOST  MYRDR  MYSERV
192.0.0.1          EV1         MYEV
192.0.0.3          USIT2       # PCR Client

Press'(N)o further changes','(A)dd entry' or '(D)elete entry'
```

If you are installing a multiterminal/ multireader system you have to press <Y> to enter the IP host names and addresses of all Client and Reader USITs of the system.

When finished with entering data press <N>.

After the prompt

```
Save changes (Yes / No)
```

or

```
Quit (Yes / No)
```

type in <Y> and <Return>

17. The network services are started. See among other things ...

```
   The REQUESTER service is starting...
```


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18. You are asked if you want labels below the icons (i.e. OK, Cancel, Image Options etc.):

```
Switch on icon labels (Yes / No)
```

Make your selection. Recommended is 'Yes'.

19. You are asked if you want to save the configuration data onto a diskette:

```
Write configuration data to diskette ....(Yes / No)?
```

Enter <Y> and <Return> to save the data.

At this point software installation is done and configuration almost completed.
Restart the computer after the following message will be displayed:

```
Shutdown has completed. It is now safe
to turn off your computer, or restart
the system by pressing Ctrl+Alt+Del.
```

If you need to configure the system to export PCR images automatically to another network destination please refer to section **Image Routing** in chapter **Configuration**.

If you need to configure procedure codes please refer to section **Procedure Codes**.
If you have to restore a backup of an anatomy/procedure code database or image routing databases follow the procedure below:

- Start up the Server USIT into application mode.
- Enter the Backup / Restore database menu.
- Restore the databases.
- Quit service mode.
- Shut down the Server USIT and Re-start it to make changes effective.

For information on how to install and configure a RIS option refer to the corresponding Option Bulletin.

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6.2 Updating older Releases to 1.5

Precondition: The connected EasyVision RAD has release 4.2L2 or higher.
In conjunction with DICOM/WLM- RIS option the IBM PC 300PL or newer types are needed.

Procedure:

- Make a backup of all (databases and configuration) at the Server USIT.
- Make a backup of all at each Client or Reader USIT.
- Proceed a software installation following the instructions given in chapter 6.1 at each USIT, but enter [R] at step 10 of the installation procedure.
- Restore the Anatomy Database and the Image Routing Database at the Server USIT.
- Leave the service mode and reboot the Server USIT.

7 Configuration

The configuration program, which is automatically started immediately after installing the application software, can be reached later in the service mode by selecting ***Reconfigure PCR User Terminal menu.***

Further selections are possible depending on the configured type of the USIT:

1. Reset Database
2. Configure Terminal
3. Configure System)
4. Configure Anatomy Database) at the Server USIT only
5. Configure Procedure Codes)
6. Configure Image Routing)

T. Configure TCP/ IP
Q. Quit

Note: **-** Make a back-up of all databases before any configuration will be changed.
- Repeat the back-up after you have checked successfully the changed configuration.
- One of the previous configuration can be restored by using the service menu ***Restore PCR User Terminal configuration.*** Anatomy and Image Routing database are included.

7.1 Reset Database

All databases will be set to the last backup stored automatically on the hard disk.
The reset of the database has to be executed at first at the Client/Reader USITs and afterwards at the Server USIT.
A reboot has to be performed at first at the Server USIT, afterwards at the Client/ Reader USITs.

7.2 Configure Terminal

`[01] USIT type`

1 = Server terminal
2 = Client terminal
3 = Reader terminal
If there is only one USIT in your configuration, configure it as a server. See also chapter Network Definitions.

`[02] Terminal Name`

Enter here the IP name of this USIT, e.g.: **USIT2**
Max. 8 characters recommende: a..z, A..Z, 0..9, "_", "-"
Small letters will be converted automatically to capitals

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	Enter a terminal name, even if you choose the default name!
[03] Terminal IP Address	Enter a valid address, e.g.: 192.0.0.3 Address fields greater than 255 are not valid
[04] TCP/IP Netmask (optional)	Default: 255.255.255.0 Address fields greater than 255 are not valid.
[05] TCP/IP Broadcast Address (optional)	Default: none =0.0.0.0 Address fields greater than 255 are not valid.
[06] TCP/IP Default Router (optional)	Default: none =0.0.0.0 Address fields greater than 255 are not valid.
[07] Server Name	Enter the terminal name of the Server, e.g. **USIT1**. Available in case of Client or Reader USIT configuration only.
[08] Server IP Address	Enter the IP address of the Server USIT,e.g: 192.0.0.2 Available in case of Client or Reader USIT configuration only. Address fields greater than 255 are not valid.
[09] Keyboard Layout	See screen message
[10] Primary Function	1 = Examination (with RIS recommended) 2 = Schedule (without RIS recommended)
[11] Reader Type	Select the type of the Reader connected to this terminal. 0 = no reader attached 1 = AC3 2 = AC2 3 = AC500, AC3000, AC5000 or 9000 Always set to "0" for a Client USIT
[12] Reader ID	Reader sequence number, as set in the Reader configuration [SYSTEM] Characters allowed: A .. Z When configuring a **USIT Client** you may ignore this item.
[13] EVrad Name	Enter the IP node name of the main EasyVision, e.g.: EV1 **For Reader USITs connected via a DMS cable:** Enter the IP node name of the Reader EasyVision connected to the corresponding reader. Characters allowed: a..z, A..Z, 0..9, "_", "-"
[14] EVrad IP Address	Enter the IP address of the above assigned EasyVision, e.g.: 192.0.0.1
[15] Use Imaging Plate Barcodes ?	Yes, No 'No' only possible for AC2 and AC3 reader.
[16] Sort Order for Patient List	Enter the sort order for the patient list in the examination and schedule screen in compliance with the customer wishes. For explanation see Operator´s manual. 1 = by last name 2 = by ID 3 = by incoming date

When configuration is done, press <S> and <Return>, then <Y> and <Return> to save the configuration.
Make a backup of the configuration data onto a floppy diskette.
After this the system will provide a shutdown and reboot.

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If USIT type or the IP name or the IP address have to be changed, take care that these changes have to added also in the HOSTS file.
This file is accessable via the service menu ***Network menu/ Edit hosts file*** at the Server USIT only.

7.3 Configure System

Only possible at the Server USIT.

[01] Hospital Name	Max. 32 characters. Will be displayed during screen save.
[02] Multiterminal Installation	Enter **Y** if you have more than one USIT in a cluster Y / N
[03] Date Format	0 = MM-DD-YYYY 1 = DD-MM-YYYY 2 = YYYY-MM-DD
Separator	0 = **-** 1 = **.** 2 = / 3 = <Space>
Month Format	0 = 0...12 1 = Jan 2 = JAN 3 = jan
[04] Time Format	0 = 24 hours 1 = 12 hours AM / PM 2 = 12 hours A.M / P.M.
Separator	0 = **:** , 1 = **.**
[05] Patient Dismiss Duration	How long should the patient data stay in the database ? 4,8,12,24,48,72,96,120 hours. Default: 120 h.
[06] Exam Dismiss Duration	How long should the scheduled exams be active until they are expired? 4,8,12,24,48,72,96,120 hours. Default: 24 h.

Make a backup of the configuration data onto a floppy diskette.

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7.4 Configure the Anatomy Databases

Prerequisites:
- Programming of the processing keys/ protocols at the EasyVision is finished.
- Programming of the film (print) formats at the EasyVision is finished.

Note:
- The processing keys and film formats will be copied automatically from the EasyVison to the USIT either after a reboot or restart of the USIT or every 15 minutes.
- The actual information about processing keys/ protocols and film formats can be found in the service menu ***System Reports menu/ EV Reports.***
- The configuration of the Anatomy Database is only possible at the Server USIT.

Procedure:
- Go to the service menu ***Backup and Restore Database menu*** and back up the anatomy database to a floppy.
- Go to the service menu ***Reconfigure PCR User Terminal menu/ Configure the Anatomy Database.*** The Anatomy Database Editor will be started.
- Make your wished changes.
- Save the modified anatomy database.
- Restart the USIT so the modified anatomy database will be effective in the application mode.
- Check whether the anatomy database works well.
- Go to the service menu ***Backup and Restore/ Anatomy Database*** and back-up the modified anatomy database to a floppy.

Anatomy Database Editor:
With the aid of selection windows and of the command line on the bottom of the screen you can select the procedure you want to execute.

A change of Film Format, Copies, Autoshuttering, SKFIX value and of the Processing Key Type can be done in three levels:
- the whole database (all groups)
- a whole group
- a special examination.

A change of the film format for the whole database or a whole group makes only sense, if only the default printer/ film format has to be changed. For doing this enter the character, which represents the default printer/ film format, e.g. **'b'**. This added character is overwritten when another character is entered, and it is deleted when a minus **'-'** is entered.

Restrictions:
- max. 16 groups
- max. 32 examinations per group
- max. 16 views per examination
- max. 8 routine views per examination, marked by (*)
- duplicate group or examination are refused
- name string: max. 16 characters
- film format string: max. 16 characters
- processing key string: max. 8 characters

Note: EasyVision allows max.14 char. for the print format name and 2 for the assigned printer or print size.

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7.5 Configure Procedure Codes

7.5.1 Explanation

The PCR Procedure Code defines a complete procedure consisting of one or more examinations. It serves as a unique identifier for a procedure used by the RIS system to schedule examinations. One procedure code may define single or multiple examinations from the USIT examination database. The procedure code will be defined by the RIS vendors or the hospital.

The hospital wide definition of the procedure code must be consistent for the creation of the interface files by the RIS and for the USIT or EV to interpret the codes.
The USIT manages the procedure codes as part of the Anatomy Database.

7.5.2 Restriction

- Number of codes: max. 2500
- Code name: max. 20 characters
- Code description: max. 64 characters
- Exams: max. 16 per code
- Views: max. 99 per code
- Allowed code name characters:

ASCII (dec.)	Character	ASCII (dec.)	Character	ASCII (dec.)	Character	ASCII (dec.)	Character
32	blank	128	Ç	149	ò	210	Ê
35	#	129	ü	150	û	211	Ë
37	%	130	é	151	ù	212	È
40	(	131	â	153	Ö	214	Í
41	)	132	ä	154	Ü	215	Î
42	*	133	à	155	ø	216	Ï
43	+	134	å	157	Ø	222	ì
44	,	135	ç	160	á	224	Ó
45	-	136	ê	161	í	225	ß
46	.	137	ë	162	ó	226	Ô
47	/	138	è	163	ú	227	Ò
48-57	0-9	139	ï	164	ñ	228	Õ
58	:	140	î	165	Ñ	229	õ
59	;	141	ì	181	Á	231	þ
60	<	142	Ä	182	Â	232	Þ
61	=	143	Å	183	À	233	Ú
62	>	144	É	198	ã	234	Û
65-90	A-Z	145	æ	199	Ã	235	Ù
95	_	146	Æ	208	õ	236	ý
96	'	147	ô	209	Đ	237	Ý
97-122	a-z	148	ö				

Codes > 127 bases on Codepage 850.

- During configuration every lower-case character is automatically converted to upper-case when an upper-case version of the character exists.

  In the main application, however, no automatic conversion is performed. This allows the customer to ontinue to use databases with procedure codes that contain lower-case characters.
- It must be ensured that no delimiter character is used in the procedure codes if delimiters are used in RIS, and no valid procedure code character is used as a delimiter.
- **It must be ensured that all exams considered by the RIS to belong to a procedure code are actually present in the anatomy database of the USIT.**
  If no valid procedure code is found in a RIS Interface file by the RIS Interface program either an error is reported or, if in Exchange-Patient-Data Mode, only the patient demographic data is introduced to the PCR database.

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7.5.3 Configuration Procedure

Only possible at the Server USIT.

- Make a backup of the Anatomy Database before the procedure codes will be created or modified.
- Select in the service menu path: ***Reconfigure PCR User Terminal*** / ***Configure Procedure Codes***
  or in the user menu path: ***Procedure Code editor***

Display:

```
Extracting database ...

Preparing database - please wait.
```

and

```
Procedure Code     Description


Enter # :
A - Add, D - Delete, Q - Quit
```

- Select the procedure you want to perform with the aid of selection windows and the command line on the bottom of the screen.

  Entering the leading number of an existing procedure code will allow it to be displayed and modified.
  After the installation of the SW there are no procedure codes defined and the list is empty.

  Steps to add a procedure code:
  - Press <A> and <Return>
  - Enter the name for the procedure code
  - Enter a description for the code
  - Select an anatomical region
  - Select an examination
  - Select the interesting views of the examination. They will be marked with (*).
  - Press <B> and <Return>
  - Press <Y> and <Return> to save the selections
    The procedure code with its examinations will be displayed now.
  - Either add or delete an examination or press <B> and <Return>
    All created procedure codes will be listed.
  - Either add further procedure codes or press <Q> and <Return>
  - Press <S> and then <Y> to save the modifications.

- Reboot all PCR User Terminals to make the changes effective.
- Check the new procedure codes.
- Make a backup of this new Anatomy Database.

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7.6 Configure Image Routing

Prerequisites:
- Programming of the export destinations at the EasyVision is finished.

Note:
- The export destinations will be copied automatically from the EasyVison to the USIT either after a reboot or restart of the USIT or every 15 minutes.
- The actual information about export destination can be found in the service menu ***System Reports menu/ EV Reports/ Export Report.***
- The configuration of the Image Routing is only possible at the Server USIT.

Explanation:
The Image Routing configuration selects default export destinations. The EasyVision will automatically export images read by the IP reader to these export nodes. The nodes must also be listed in the EasyVision configuration.

Procedure:

Service menu path: ***Reconfigure PCR User Terminal/ Configure Image Routing***

Display:

```
Backing up Image Routing Database; Please Wait.
```

and

```
Image Routing Database Configuration (Page 1 of 1)

Routing Type      Criterion     Destination
-----------------------------------------
```

The following key strokes followed by the <Enter> key are valid:

<A> to **add** a new entry
<D> to **delete** an existing entry
<E> to **edit** an existing entry
<N> to display the **next page**
<P> to display the **previous page**
<Q> to **quit** Image Routing Configuration
<S> to **save** this Configuration

The information that can be entered for each field is as follows :

Routing Type: Select the type of routing by entering 0..4. The following types are available:
0 = Default Routing
1 = Physican Name
2 = Exam Name
3 = Patient Location
4 = Study Location

Export destination: Enter the name of the export destination as listed in the EasyVision cluster configuration. For a PMSnet modality enter the **IP node name**. For a DICOM modality enter the **Application Entity Title**. Max. 15 characters.

After changing data make a backup via service menu ***Backup and Restore/ Image Routing Database.***

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7.7 Language

The same language must be selected at all USITs working together in a cluster.
It can be done during the installation of the application software only.
However, if the language has to be changed the software has to be re-installed at each USIT PC.

7.8 Configure TCP/ IP

For thirdline service only!
Do not try this part of configuration . You could get more problems instead to solve someone.

To leave the TCP/IP configuration program:

- Press <Alt>+<F4>.
- Press <Enter> to save the changes.
- When the

```
Autostart Sendmail...
```

window is displayed press <N> . You're back in the reconfiguration menu.

7.9 Multiterminal / Multireader Configuration

- Install the software first at the Server USIT.
- In the system configuration menu configure the Server USIT as a multiterminal installation.
- Add IP addresses and host names of all Client and/ or Reader USITs in the hosts file of the Server USIT.
  The hosts file editor will be started automatically during SW installation at the Server USIT.
  The hosts file editor can be started later via the service menu ***Network menu/ edit hosts file***.
- Make a backup of the Server configuration onto a floppy disk.
- Reboot the USIT after you will be prompted for doing this.
- Go into the application mode.
- Install the software at all the Client and / or Reader USITs.
- Make a backup of the Client and/ or Reader USITs onto a floppy disk.
- Reboot the Client and/ or Reader USITs after you will be prompted for doing this.

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8 Backup and Restore

There exist two possibilities to make a backup or restore of interesting data:
- backup/ restore of data stored on a floppy disk
- backup/ restore of data stored on the hard disk (path: C:\user\usit\backup)

8.1 Backup/ Restore on Floppy Disk

One floppy diskette can be used for all USIT PCs connected to a cluster.

Backup/ Restore of Terminal and System configuration during SW installation:
You will be asked automatically to save the Terminal and the System configuration onto a floppy diskette.
Do this at each USIT PC.
A restore is possible via the (R)econfiguration option of the SW installation process according to chapter 6.1.

Backup/ Restore after SW installation:
- Insert a floppy diskette.
- Select the service menu path ***Backup and Restore***.
- Select the interesting part, recommended is ***All.***
- Enter 'b' for backup or 'r' for restore.

Following selections are applicable depending on the configured type of the USIT:

1. All Data (backup includes No. 2 to 5, restore includes No. 2 to 4 !)
2. Anatomy Database including Procedure Code Database
3. Image Routing Database
4. Patient Database
5. Backup Configuration
6. Copy Processing Protocols from EasyVision to floppy disk (requires an action at the EasyVision)
7. Copy Processing Protocols from floppy disk to EasyVision (requires an action at the EasyVision)

F. Format Floppy Diskette
Q. Return to local service menu

- If you have changed something either in Terminal or System configuration you will automatically be asked to save the new configuration on hard disk and afterwards onto a floppy diskette.
- A restore of the Terminal and System configuration is only possible during a complete SW installation according to chapter 6.1.
- The system creates automatically a directory for the backup on the inserted floppy diskette.The name of this directory is the Terminal Name configured for this specific USIT PC, e.g. USIT1.
- The copy function of the Processing Protocols of the EasyVision is described in chapter 13.8 and 13.9.

8.2 Backup/ Restore on Hard Disk

Only suitable for testing changed configurations and databases.
One of the last ten modifications can be restored.

Backup:
After leaving the Service or the Advanced User menu with a change of certain parameters the following configurations and databases will be stored automatically on hard disk:
- Terminal configuration
- System configuration (at the Server only)
- Anatomy database including the procedure codes (at the Server only)
- Image Routing database (at the Server only)

Restore:
Via the Service menu path ***Restore previous Configuration.***

In case of a crash of the hard disk or in case of installing new software the data get lost.
The floppy diskette is the only real medium for doing backups.

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9 System Status

To get an overall view of the status of the PCR User Terminal the following reports can be created via the service menu:

3. System Reports menu

1. System Log Report
File name: SYSLOG.REP
Contents: Code – Date/Time - Severity - Description - Action - Task -Terminal

2. System/ Terminal Configuration Report
File name: SYSCFG.REP

3. Anatomy Database Report
File name: ANADBS.REP
Contents: Group - Examination - View - Routine

4. Anatomy Database Exposure Data Set (EDS) Report
File name: ANAEDS.REP
Contents: Group - Examination - Film Format - Copies - View - Processing -
- MRM - EDR - SKFIX - Sens. - Autoshutter - Rotation - Mirror -
- Fmt. Pos. - Land/Portrait - Routine
Error: If a tilde ~ is in front of a film format or processing key then this type is unknown in the EasyVision.

5. Procedure Code Report
File name: PROCOD.REP
Contents: Procedure Code - Description - Group - Examination - View

6. Image Routing Report
File name: IMROUT.REP
Contents: Routing Type – Criterion - Destination

7. Patient Database Report
File name: PATDBS.REP
Contents: Patient ID - Last Name - First Name - Middle Name - Sex -
- Birthdate - Room - Status - Other ID - RIS

8. EV Reports

1. Film Format Report
File name: PRINTS.REP (EasyVision: prints.dat)
Example: 00 1on1-L-Lifesize 1 PMS

2. Processing Key Report
File name: PROCESS.REP (EasyVision: process.dat)
Example: U0004707 Lo. Extremity, Mag:M UM

3. Export Report
File name: EXPORT.REP (EasyVision: export.dat)

4. View Print Reports and Processing Parameters

1 - reports.dat
File name: REPORTS.DAT (EasyVision: reports.dat)
Contents: Name - Comment - Type - Orientation - Autorotate - Ignore - Allowed text - Patient info
- Rows - Columns - Filling order - Zoom - Run - Scale

2 - presets.dat (not necessary and available at USIT side)

9. Image Plate Usage Report
File name: IP_USAGE.REP
Contents: IP ID – total usage – usage since backup

In the (V)iew mode of the above mentioned files a text editor will be started.
Press <F1> to get help for using this editor.
Press <ESC> to move the cursor from the command line into the text field and vice versa. So also the rest of the whole text can be displayed by using the cursor control.
Press <F3> to leave the editor.

Drive ***Z:*** is a mirror of a special configuration part of the EasyVision.
In ***Z:\configuration*** the following files can be found:

- export.dat)
- process.dat) from EasyVision to USIT
- prints.dat)
- reports.dat)
- exam.dat)
- usitver.dat) from USIT to EasyVision
- hosts)

The USIT has modified copies of these files (except hosts) in its own directory ***C:\user\usit\config***.

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A change of configuration at the EasyVision will become effective either after a restart or a reboot of the USIT or every 15 minutes.

10 Network Menu

Contents:

1. Edit hosts file
2. ‚Ping' another unit via the Ethernet
3. Telnet
4. FTP
5. Get network statistics
6. Select network interface card
7. Backup host file to floppy disk
8. Restore host file from floppy disk
9. Format floppy disk

Q. Return to local service menu

The most important functions are # 1, 2, 6, 7 and 8.

Only during the installation of the software the hosts file will be created automatically.
Afterwards changes of IP addresses or IP names or server/ clients assignments have to be done manually via the service menus ***Edit hosts file*** and ***Reconfigure PCR User Terminal menu/ Configure Terminal.***

A backup of the hosts file is also included into the backup facility of the service function ***Reconfigure PCR User Terminal menu/ Configure Terminal*** and ***Backup and Restore/ Backup Configuration ...***

11 Clear System Log

All the logged errors, warnings and messages will be erased via this function.
It should be used after each planned or corrective maintenance.

12 Image Plate Counter

The image plates (IP) have a limited lifecycle. Depending on the mechanical condition of the surface and on the ability to store the X-Ray energy homogeneously the IPs have to be replaced after 2000 ... 4000 exposures.

The counter can be read-out via the service function ***System Reports menu/ Image Plate Usage Report.***

The last column ‚since backup' contains the information about the IP usage from the last read-out of this counter and will be set to zero automatically during the read-out or via a database reset.

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13 Advanced User Menu

Skilled user have the following possibilities:
- modification of the anatomy database
- modification of the procedure code list
- modification of the sort order for patient list
- backup/restore of the anatomy database
- backup/restore of the processing protocols of the EasyVision

Note:
The guidance is given in english language only.
It is recommended to perform the advanced user menu only at the Server USIT of all connected PCR User Terminals.

Procedure:

- Select ***Utilities*** from the patient list window.
- Select ***Service.***
- Enter the password **user** and press <Enter>.

Alternatively the advanced user menu can be called up during start-up of a PCR User Terminal:

- Switch on or restart the PCR User Terminal
- When you see the ”Start-up” screen :

```
PCR . . .  Starting PCR User Terminal, please wait.
```

  press immediately <s> followed by <Enter>.
- Enter the password **user** and press <Enter>.

The following selections are possible:

1. Backup Anatomy and Procedure Code Database
2. Anatomy Database editor
3. Procedure Code editor
4. Define sort order for patient list
5. Restore Anatomy and Procedure Code Database
6. Format Floppy Diskette
7. List files on floppy
8. Copy Processing Protocols from EasyVision to floppy disk (not accessible during start-up)
9. Copy Processing Protocols from floppy disk to EasyVision (not accessible during start-up)
10. Restore Configuration (only accessible during start-up of the PCR User Terminal)

Q. Quit and return to application

13.1 Backup Anatomy and Procedure Code Database

- In the advanced user menu select ***Backup Anatomy and Procedure Code Database***.
- Put a floppy diskette into the drive.
- Press <Enter> to save the database onto the floppy.

  Created file: ANATOMY.BAK

  Path name: <terminal name> e.g. USIT1

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13.2 Anatomy Database Editor

- Make a backup of the existing Anatomy and Procedure Code database. See chapter 9.1.
- In the advanced user menu select ***Anatomy Database editor.*** A special editor will be started.
- Make the wished changes. See explanation below.
- Reboot all connected PCR User Terminals to make the changes effective.
- Check the modifications.
- Make a backup of the new Anatomy and Procedure Code database.

Anatomy Database Editor:

With the aid of selection windows and of the command line on the bottom of the screen you can select the procedure you want to execute.

A change of Film Format, Copies, Autoshuttering, SKFIX value and of the Processing Key Type can be done in three levels:
- the whole database (all groups)
- a whole group
- a special examination.

A change of the film format for the whole database or a whole group makes only sense, if only the default printer/ film format has to be changed. For doing this enter the character, which represents the default printer/ film format, e.g. **'b'**. This added character is overwritten when another character is entered, and it is deleted when a minus **'-'** is entered.

Restrictions:
- max. 16 groups
- max. 32 examinations per group
- max. 16 views per examination
- max. 8 routine views per examination, marked by (*)
- duplicate group or examination are refused

13.3 Procedure Code Editor

- Make a backup of the existing Anatomy and Procedure Code database. See chapter 9.1.
- In the advanced user menu select ***Procedure Code editor.***
  A special editor will be started.
- Make the wished changes. See chapter ***7.5 Configure Procedure Code*** for a short explanation of this editor.
- Reboot all connected PCR User Terminals to make the changes effective.
- Check the modifications.
- Make a backup of the new Anatomy and Procedure Code database.

13.4 Define Sort Order for Patient List

Can be different configured at each PCR terminal.

- In the advanced user menu select ***Define sort order for patient list.***
- Enter your choice: 1 = by last name
  2 = by ID
  3 = by incoming date

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13.5 Restore Anatomy and Procedure Code Database

To restore the database from a floppy diskette.
With the aid of the backup and restore facility the Anatomy and Procedure Code database can be copied from one PCR system to another one.

13.6 Format Floppy Diskette

A 3.5“ floppy diskette can be formatted to a size of 1.44 MB.

13.7 List Files on Floppy

All the files of each directory will be listed.

13.8 Copy Processing Protocols from EasyVision to Floppy Disk

This is a feature to make a backup of the Processing Protocol of the EasyVision rel. ≥ 4.2L2 at the PCR User Terminal. Usefull in that case where the EasyVision, e.g. Ultra 60, does not have an own floppy drive.

- Open the Processing Protocol window at the EasyVision.
- Click on the ***Import/Export*** button. The Import/Export window will be displayed.
- Select there ***Export.*** The Processing Protocols will be sent to the PCR User Terminal.
- Insert a floppy diskette at the PCR User Terminal.
- Select ***Copy Processing Protocols from EasyVision to Floppy Disk*** at the PCR User Terminal.
  The file ‚protocol.dat‘ will be stored on the floppy diskette.

13.9 Copy Processing Protocols from Floppy Disk to EasyVision

This is the restore function of the above mentioned backup feature.

- Insert the floppy diskette containing the backup of the Processing Protocols at the PCR User Terminal.
- Select ***Copy Processing Protocols from Floppy Disk to EasyVision*** at the PCR User Terminal.
  The file ‚protocol.dat‘ will be stored at the PCR User Terminal.
- Open the Processing Protocol window at the EasyVision.
- Click on the ***Import/Export*** button. The Import/Export window will be displayed.
- Select there ***Import.*** The Processing Protocols will be sent to the EasyVision.

13.10 Restore Configuration

Either if the user is not satisfied with the remotely configured system or in case of a fault one of the ten previous configurations can be selected.
The previous configuration contains also the Anatomy and Image Routing database.
This function is accessible only if the advanced user menu was called up during start-up of the PCR User Terminal.

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14 Remote Service

This SW offers the following service and applicational functions:

1. Reconfigure PCR User Terminal menu
2. Backup and Restore Database menu
3. System Reports menu
4. Network menu
5. OS/2 Command shell
6. Clear system log
7. Restore PCR User Terminal configuration
8. AC3 Service terminal emulation

Q. QUIT remote service session

Access:	Via EasyVision
Communication:	Telnet
File transfer:	FTP or NFS
Security:	Password protected access to USIT The user will be informed by an alarm. Start and end of a remote session will be registered in the log file.
User interaction:	In case a shut-down is needed, the user will be informed by an alarm to execute this. A previous configuration of the terminal can be selected by pressing <s> during start-up.
Restriction:	A shut-down via remote is not possible.

15 Communication with Philips Medical Systems

Problem Reporting

Problems which may be related to an error in the system should be reported via the Service Technical Support side of the Intranet to the **Help Desk Hamburg**:

Philips Medical Systems
Helpdesk Xray Hamburg
D-22335 Hamburg
Germany

Tel. : +49 40 5078 - 2369 or 2037
Fax : +49 40 5078 - 2348
E-mail : Helpdesk.Xray.Hamburg@philips.com

Field Problem Reports should be sent as an enclosed file of an E-mail to **Help Desk Hamburg.**
Please use the program PRFORM to create FPR files. A compressed version can be downloaded from the Intranet: *Service Technical Support/ RAD/ Tools*.

NOTE: First check the FPRview database, the TechTips of PCR and the PCR forum on the Intranet to find out if your problem is already known. Please use the Intranet frequently to check for the latest news.

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